From the INTERNATIONAL BUREAU

PCT

NOTIFICATION OF ELECTION

(PCT Rule 61.2)

To:

Assistant Commissioner for Patents United States Patent and Trademark Office Box PCT

Washington, D.C.20231 ETATS-UNIS D'AMERIQUE

in its capacity as elected Office

Date of mailing (day/month/year)
29 May 2000 (29.05.00)

International application No.

PCT/IB99/01723

International filing date (day/month/year) 21 October 1999 (21.10.99)

F14633/GV

Applicant's or agent's file reference

Priority date (day/month/year)
23 October 1998 (23.10.98)

Applicant

CASS, Leslie, John

1.	The designated Office is hereby notified of its election made:
	X in the demand filed with the International Preliminary Examining Authority on:
	25 April 2000 (25.04.00)
	in a notice effecting later election filed with the International Bureau on:
2.	The election X was
	was not
	made before the expiration of 19 months from the priority date or, where Rule 32 applies, within the time limit under Rule 32.2(b).
	·

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland

Authorized officer

Juan Cruz

Facsimile No.: (41-22) 740.14.35

Telephone No.: (41-22) 338.83.38

Form PCT/IB/331 (July 1992)

IB9901723



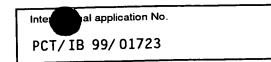
INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	(Form PCT/ISA/2	f Transmittal of International Search Report 220) as well as, where applicable, item 5 below.							
F14633/GV	ACTION (description)	(Earliest) Priority Date (day/month/year)							
International application No.	International filing date (day/month/year)	1							
PCT/IB 99/01723	21/10/1999	23/10/1998							
Applicant .									
CASS, LESLIE, JOHN									
This International Search Report has been according to Article 18. A copy is being tra	_								
1 Pacie of the report									
Basis of the report a. With regard to the language, the language in which it was filed, uni	international search was carried out on the ba less otherwise indicated under this item.	sis of the international application in the							
the international search w	vas carried out on the basis of a translation of t								
b With regard to any nucleotide ar	nd/or amino acid sequence disclosed in the in	nternational application, the international search							
was carried out on the basis of th	e sequence listing .								
	onal application in written form.	m.							
	ernational application in computer readable for								
	o this Authority in written form.								
furnished subsequently t	o this Authority in computer readble form.	does not go beyond the disclosure in the							
international application	bsequently furnished written sequence listing of as filed has been furnished.								
the statement that the inf furnished	formation recorded in computer readable form	is identical to the written sequence listing has been							
-: L	und unsearchable (See Box I).								
3. Unity of invention is la	cking (see Box II).								
4. With regard to the title ,									
	ubmitted by the applicant.								
	ished by this Authority to read as follows:								
VEHICLE IDENTIFICATION	IN SYSTEM								
5. With regard to the abstract,									
the text is approved as s	submitted by the applicant.	with an it appears in Ray III. The applicant may							
the text has been estable within one month from the	ished, according to Rule 38.2(b), by this Autho he date of mailing of this international search re	ority as it appears in Box III. The applicant may, apport, submit comments to this Authority.							
1	blished with the abstract is Figure No.	1							
X as suggested by the app		None of the figures.							
	ailed to suggest a figure.								
I	er characterizes the invention.								



to be disease on the second



Box I	Observations where certain claims were found unsearchable (Continuation of Item 1 of Itest sheet)
This Inte	emational Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1.	Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
2. X	Claims Nos.: 29-31 because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically: The claims 29-31 are not clear. See PCT article 6.
3.	Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box II	Observations where unity of invention is lacking (Continuation of item 2 of first sheet)
	ternational Searching Authority found multiple inventions in this international application, as follows:
1.	As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2.	As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3.	As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4.	No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Rema	The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.

anal application No.

PCT/IB 99/01723

A. CLASSIFICATION OF SUBJECT MATTER

IPC7: G07C 1/30, G07F 17/24
According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7: G07C, G07F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

	DOCUMENTS	CONSIDERED TO	D BE RELEVANT
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Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Х	EP 0193320 A2 (ELECSELL LIMITED), 3 Sept 1986 (03.09.86), whole document, see especially figure 3 and page 17 line 12 - line 14	1-13,15-21
		·
x	WO 9830982 A1 (MODUL-SYSTEM SWEDEN AB), 16 July 1998 (16.07.98), whole document	1,8,9,11-13, 15,18,20-22, 25
ŀ		
х	US 5745052 A (MATSUYAMA ET AL), 28 April 1998 (28.04.98), column 6, line 8 - line 10, abstract	4-8,14,16, 20,25-27
		

X	Further documents are listed in the continuation of Bo	c. X	See patent family annex.		
* "A" "E"	Special categories of cited documents: document defining the general state of the art which is not considered to be of particular relevance erlier document but published on or after the international filing date	date the p	document published after the international filing date or and not in conflict with the application but cited to under rinciple or theory underlying the invention ment of particular relevance: the claimed invention canno dered novel or cannot be considered to involve an inventi	stand ot be	
"L" "O" "P"	document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) document referring to an oral disclosure, use, exhibition or other means document published prior to the international filing date but later than the priority date claimed	step "Y" docu consi comi being	when the document is taken alone ment of particular relevance: the claimed invention canno idered to involve an inventive step when the document is sined with one or more other such documents, such comb g obvious to a person skilled in the art ment member of the same patent family	ot be	
Dat	e of the actual completion of the international search	Date of mailing of the international search report			
			2 1 02 2000		
25 January 2000 Name and mailing address of the International Searching Authority 1 European Patent Office P.B. 5818 Patentlaan 2 NL-2280 HV Rijswijk			officer Jonsson / JA A		
	el(+31-70)340-2040, Tx 31 651 epo nl, ax(+31-70)340-3016	Telephone			

INTERNATIONAL REPORT

Form PCT/ISA/210 (continuation of second sheet) (July 1992)

Internal al application No.
PCT/IB 99/01723

	PC1/1B 33/	01,20
C (Continu	ation). DOCUMENTS CONSIDERED TO BE RELEVANT	
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	SE 507381 C2 (ROLF RISING), 25 May 1998 (25.05.98), page 5, line 17 - line 27	1,10-13,15, 18,20-26,28
X	 WO 9627170 A1 (PARKIT OY), 6 Sept 1996 (06.09.96), page 7, line 30 - page 9, line 15	4-6,8-11, 15-17,21-23, 26,28
X	WO 9611453 A1 (PARKIT OY), 18 April 1996 (18.04.96), page 4, line 15 - page 5, line 19, figure 2	1,4,9,11-13, 15-18,21,22, 26,28
A	WO 9719568 A1 (VAZVAN, BEHRUZ), 29 May 1997 (29.05.97), page 2, line 26 - line 35	1,18,21-23, 26,28
A	WO 9320539 A1 (JONSSON, TOMMY), 14 October 1993 (14.10.93), page 4, line 21 - line 25	25
A	EP 0523742 A2 (EASY PARK LTD), 20 January 1993 (20.01.93), column 7, line 58 - column 8, line 2	1,8,10,11, 14,27

SA 252505

02/12/99

Interconal application No.

PCT/IB 99/01723

	atent document I in search repor	rt	Publication date		Patent family member(s)		Publication date
EP	0193320	A2	03/09/86	JP	61246887	A	04/11/86
MO	9830982	A1	16/07/98	AU AU	708082 1561397		29/07/99 11/08/97
				EP		Â	25/11/98
				ΙL	125152		00/00/00
				NO	983110		31/08/98
				NO	993259		30/06/99
				PL	327972		04/01/99
				SE	510864		28/06/99
				SE	9700054		11/07/98
				US	5954294	A 	21/09/99
US	5745052	A	28/04/98	GB	2302608	A.B	22/01/97
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				JP	9007014	A	10/01/97
SE	507381	C2	25/05/98	AU	8754698	A	16/03/99
				SE	9702925		25/05/98
				WO	9910844	A 	04/03/99
10	9627170	A1	06/09/96	AU	4721396		18/09/96
				EP	0812448		17/12/97
				FI	102018		00/00/00
				FI US	950918 5905247		29/08/96 18/05/99
							16/03/33
OW	9611453	A1	18/04/96	AU	3655095	Α	02/05/96
				FI	944738		08/04/96
4 0	9719568	A1	29/05/97	FI	970767	Α	20/10/97
₩O	9320539	A1	14/10/93	AU	3911993	Α	08/11/93
				DE	69316888	D,T	03/09/98
				EP	0634039		18/01/95
				ES	2115056		16/06/98
				SE	506681		26/01/98
				SE	9201001	A 	01/10/93
P	0523742	A2	20/01/93	NON	E		

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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

15

(PCT Article 36 and Rule 70)

• •	or agent's file reference	FOR FURTHER ACTION	See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)			
	GV/VM/AM					
	al application No.	International filing date (day/mor				
PCT/IB99		21/10/1999	23/10/1998			
Internationa G07C1/3	al Patent Classification (IPC) or O	national classification and IPC				
Applicant			****			
CASS, L	ESLIE, JOHN		·			
	nternational preliminary exa transmitted to the applican		red by this International Preliminary Examining Authority			
2. This F	REPORT consists of a total	of 6 sheets, including this cover	r sheet.			
b	een amended and are the b		f the description, claims and/or drawings which have s containing rectifications made before this Authority actions under the PCT).			
These	e annexes consist of a total	of 24 sheets.				
3. This r	eport contains indications re	elating to the following items:				
, H	☐ Priority					
111	<u> </u>	f opinion with regard to novelty, i	inventive step and industrial applicability			
IV	☐ Lack of unity of inver		, , , , ,			
V		under Article 35(2) with regard tations suporting such statement	to novelty, inventive step or industrial applicability;			
VI	☐ Certain documents	cited				
VII	☑ Certain defects in the	e international application				
VIII	☐ Certain observations	on the international application				
Date of sub	mission of the demand	Date	of completion of this report			
25/04/20	00		1 1, 12, 00			
	mailing address of the internation	Onal Autho	orized officer			
<u></u>	European Patent Office D-80298 Munich	Drys	sdale, N			
<u> </u>	Tel. +49 89 2399 - 0 Tx: 523 Fax: +49 89 2399 - 4465	· · · · · · · · · · · · · · · · · · ·				



International application No. PCT/IB99/01723

I. Basis of the report

1.	resp the	This report has been drawn on the basis of (substitute sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to the report since they do not contain amendments (Rules 70.16 and 70.17).): Description, pages:									
	1-17	7	as received or	1	13/11/2000	with letter of	09/11/2000				
	Clai	ms, No.:									
	1-28	3	as received or	1	13/11/2000	with letter of	09/11/2000				
	Dra	wings, sheets:									
	1/6-	6/6	as originally fil	ed							
2.		/ith regard to the language , all the elements marked above were available or furnished to this Authority in the inguage in which the international application was filed, unless otherwise indicated under this item.									
	These elements were available or furnished to this Authority in the following language: , which is:										
		the language of a	translation furn	ished for the pu	urposes of the i	nternational searc	ch (under Rule 23.1(b)).				
		the language of p	ublication of the	international a	pplication (und	er Rule 48.3(b)).					
		the language of a 55.2 and/or 55.3).		ished for the pu	urposes of inter	national prelimina	ary examination (under Rule				
3.		With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:									
		□ contained in the international application in written form.									
		l filed together with the international application in computer readable form.									
		furnished subsequ	uently to this Au	ithority in writte	n form.						
		furnished subsequently to this Authority in computer readable form.									
		The statement that the international a				e listing does not	go beyond the disclosure in				
		The statement that listing has been for		on recorded in c	omputer reada	ble form is idention	cal to the written sequence				
4.	The	amendments hav	e resulted in the	e cancellation o	f:						
		the description,	pages:								
	Ø	the claims	Nos:	29-31							



International application No. PCT/IB99/01723

		the drawings,	sheets:		
5.		•		•	ome of) the amendments had not been made, since they have been as filed (Rule 70.2(c)):
		(Any replacement sh report.)	eet contai	ning such	amendments must be referred to under item 1 and annexed to this
6.	Add	litional observations, it	necessar	y :	
V.					rith regard to novelty, inventive step or industrial applicability;
	cita	tions and explanatio	ns suppo	rting suc	on statement
1.		tement	ns suppo	orting suc	en statement
1.	Stat	•	ns suppo Yes: No:	•	
1.	Stat	tement	Yes:	Claims	
1.	Stat Nov Inve	relty (N)	Yes: No: Yes: No:	Claims Claims	1-28 1-28

2. Citations and explanations see separate sheet

VII. Certain defects in the international application

The following defects in the form or contents of the international application have been noted: see separate sheet

EXAMINATION REPORT - SEPARATE SHEET

- V. Reasoned statement
- 2. Citations and explanations
- 1. Reference is, or has been, made to the following documents:

D1 = WO 98 30982 A

D2 = EP 0 193 320 A

D3 = US 5 745 052 A

D4 = WO 99 10844 A

Document D4 (not prepublished) claims the priority of the prepublished SE 507381 C2, cited in the international search report. After comparing document D4 with SE 507381 C2 the examiner assumes that the content of the two documents is the same.

2. The application includes five independent claims. Claims 1 & 2 concern a handheld device for monitoring and identifying a vehicle in at least one parking zone comprising, inter alia, input means for inputting identification (ID) particulars of a vehicle into the device, means for communicating with a remote station at which reference ID particulars of vehicles are stored, timing and processor means for calculating a monetary amount due for parking, and means for receiving the monetary amount due. The inputted ID particulars are compared with the reference ID particulars and the device includes signal generation means for generating a warning signal depending on the result of the comparison. In claim 1 the reference ID particulars are communicated from the remote station to the device and the comparison is performed by the processor means in the device. In claim 2 the inputted ID particulars are transmitted to the remote station and the comparison is performed there, the result of the comparison being transmitted back to the device.

Although drafted as independent claims, claims 13 and 14 effectively concern a system comprising a remote station and at least one device according to claims 2 & 1 respectively. Claim 23 effectively concerns a method of monitoring and identifying a vehicle using a system according to claim 13.

3. Document D1, which is considered to represent the closest prior art, discloses a hand-held parking control unit (PCU) for monitoring parked vehicles. The PCU (1) comprises:

input means (optical image reproducing device (7); alternatively keyboard (15)) for feeding input identification (ID) particulars (vehicle registration number) of a vehicle in a parking zone into the PCU (page 6, line 35 to page 7, line 4; page 8, lines 25-27));

communication means (Fig. 2) for receiving reference ID particulars (including vehicle registration numbers) of vehicles, i.e. particulars of vehicles which have commenced a parking period but have not terminated parking, from a remote station (6) (page 7, lines 11-33);

storage means (4) for storing reference ID particulars (page 7, lines 4-9); processor means (3) connected to the input means (7) and to the storage means (4), the processor means including comparator means for comparing the input ID particulars with the reference ID particulars (page 7, lines 4-9);

display means (2); and

signal generation means for selectively generating a warning signal (on display (2)) in response to the comparison (i.e. if the input vehicle ID is not found in the reference list, meaning that the vehicle is parked illegally) (page 9, lines 4-12).

- 4. The subject-matter of claims 1 and 2 is distinguished from the device of D1 in that, inter alia.
 - the claimed devices further comprise timing means for timing the duration for which the vehicle is parked;
 - the processor means calculates a monetary amount due for parking for that duration; and
 - the devices also comprise monetary receiving means for receiving the monetary amount due.

These features allow the hand-held device to function also as a portable parking meter, which can be carried by a parking attendant or supervisor, thus making fixed pay stations unnecessary.

5. Of the documents cited in the international search report, all except D3 in fact disclose hand-held devices for use by parking attendants. However, all of these

devices are used either to detect violations of parking regulations, i.e. vehicles for which a prepaid parking time has been exceeded or for which no parking fee has been paid, or to register vehicle ID particulars and time parked for transmission to a central billing facility. None discloses or suggests the combination of a parking meter with a hand-portable monitoring device.

The subject-matter of claims 1 and 2 is therefore novel and involves an inventive step in the light of the available prior art (Art. 33(2) & (3) PCT).

The same conclusion therefore applies also to independent claims 13, 14 and 23 (see section 2 above) and also to claims 26 - 28, to the extent that their subjectmatter is consistent with that of claims 1, 2, 13, 14 and 23.

- 6. The dependent claims define advantageous embodiments of the device and method of claims 1, 2, 13, 14 and 23. Their subject-matter is therefore also novel and inventive (Art. 33(2) & (3) PCT).
- 7. Industrial applicability (Article 33(4) PCT) is obvious for all claims.

VII. Certain defects

- 1. The features of the claims are not provided with reference signs placed in parentheses (Rule 6.2(b) PCT).
- 2. Claims 26 - 28 contain references to the description and the drawings. According to Rule 6.2(a) PCT, claims should not contain such references except where absolutely necessary, which is not the case here.

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INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

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98/9689

23 October 1998 (23.10.98) ZA

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(74) Agent: VIVIER, Garth; 1140 Prospect Street, Hatfield, 0001 Pretoria (ZA).

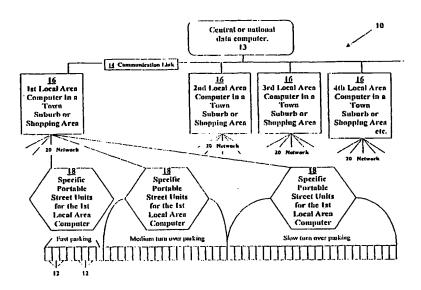
(81) Designated States: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

Published

With international search report.

Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.

(54) Title: VEHICLE IDENTIFICATION SYSTEM



(57) Abstract

The invention provides a device (18) for identifying a vehicle in at least one parking zone (12). The device (18) includes input means, communication means, storage means (22), processor means (28) and signal generation means. The input means is for feeding identification particulars of the vehicle in the parking zone (12) into the device (18). The communication means is for communicating reference identification particulars of vehicles from a remote station to the device (18). The processor means (28) includes comparator means for comparing the input identification particulars with the reference identification particulars stored in the storage means (22). The signal generation means generates a warning signal in response to the comparison. A system for identifying vehicles in a plurality of parking zones is also provided. The invention further provides a method of identifying a vehicle in a parking zone.

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EE	Estonia	LR	Liberia	SG	Singapore		

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VEHICLE IDENTIFICATION SYSTEM

THIS INVENTION relates to an identification system. In particular, it relates to a system for identifying vehicles in a plurality of parking zones and to a device for use in the system. It also relates to a method of identifying a vehicle in a parking zone.

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According to the invention, there is provided a device for identifying a vehicle in at least one parking zone, the device including

input means for feeding input identification particulars of the vehicle in the parking zone into the device;

storage means for storing reference identification particulars of vehicles:

processor means connected to the input means and to the storage means, the processor means including comparator means for comparing the input identification particulars with the reference identification particulars; and

signal generation means for selectively generating a warning signal in response to the comparison.

The device may include communication means for communicating the reference identification particulars between the device and a remote station.

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The device preferably includes timing means for timing the duration for which the vehicle is parked in the parking zone.

In certain embodiments, the processor means defines the timing means and is operable to calculate a monetary amount due for parking in the parking zone so that the device functions as a parking meter.

Further in accordance with the invention, there is provided a device for identifying a vehicle in at least one parking zone, the device including

input means for feeding input identification particulars of the vehicle in the parking zone into the device;

communication means for communicating the input identification particulars to a remote station at which reference identification particulars of vehicles are stored, the input identification particulars and the reference identification particulars being compared at the remote station thereby to identify the vehicle; and

timing means for timing the duration for which the vehicle is parked in the parking zone in order to calculate a monetary amount due for parking in the parking zone.

The device may include processor means which defines the timing means and is operable to calculate the monetary amount due so that the device functions as a parking meter.

The device typically includes display means for displaying the identification particulars and data on the monetary amount due. Accordingly, in the event of the particulars corresponding, the observed

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particulars may be checked prior to generating the warning signal. The storage means may thus include data defining a rate payable by the driver, e.g. a rate per hour during the day, during the evening, and so on.

Preferably, the device includes monetary receiving means for receiving monetary value, e.g. from a credit card, smart card, or the like. The processor means may update the storage means thereby to keep a record of monetary value received e.g. cash received, credit card transactions, smart card transactions, or the like.

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The device may include a printer for printing a hard-copy of selected data.

The input means may include a keypad via which the identification particulars of the vehicle and the parking zone are manually entered. In addition or instead, the input means may include a reader capable of reading in a wireless fashion a tag device in or on the vehicle, the tag carrying the said identification particulars of the vehicle. The identification particulars are typically particulars observed by a supervisor and fed into the device.

The communication means is typically a wireless communication link.

In other embodiments, the communication channel may be a hardwired link, an RF link, or any other conventional communication link.

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In certain embodiments, the device includes enabling means for selectively enabling the device. The enabling means may be defined by processor means and the input means in such a fashion so that upon entry of a correct PIN number the device is enabled. The PIN code may be communicated between the base station and the remote unit.

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The reference identification particulars are typically reference identification particulars of stolen vehicles. Accordingly, the reference particulars may be the make, colour, registration number or the like of the vehicle.

The device may include a housing for housing its various components which is shaped and dimensioned so that it can be handheld. The housing is preferably waterproof.

Further in accordance with the invention, there is provided a system for identifying vehicles in a plurality of parking zones, the system including

a remote station at which reference identification particulars of vehicles are stored; and

at least one device for identifying a vehicle parked in one of the plurality of parking zones with which the device is associated, the device including

input means for feeding input identification particulars of a vehicle in the parking zone into the device;

communication means for communicating the input identification particulars to the remote station; and

timing means for timing the duration for which the vehicle is parked in the parking zone in order to calculate a monetary amount

due for parking in the parking zone, the input identification particulars and the reference identification particulars being compared at the remote station and a warning signal selectively being generated in response to the comparison.

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A wireless communication means may be provided for communicating the identification particulars to the remote station.

Further in accordance with the invention, there is provided a system for identifying vehicles in a plurality of parking zones, the system including

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a remote station at which reference identification particulars of vehicles are stored;

at least one device for identifying a vehicle parked in the parking zone with which the device is associated, the device including

input means for feeding input identification particulars of a vehicle in the parking zone into the device;

communication means for receiving the reference identification particulars from the remote station;

storage means for storing the reference identification particulars of vehicles;

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processor means connected to the input means and the storage means, the processor means including comparator means for comparing the input identification particulars with the reference identification particulars; and

signal generation means for selectively generating a warning signal in response to the comparison.

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The system may include timing means for timing the duration for which the vehicle is parked in the parking zone, the processor means defining the timing means and being operable to calculate a monetary amount due for parking in the parking zone.

The input means may include a reader capable of reading a tag device hidden in or on the vehicle in a wireless fashion, the tag carrying the said identification particulars of the vehicle.

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In certain embodiments, the system includes a control centre and plurality of remote stations at remote locations with parking zones, each remote station being in communication with the control centre via a telecommunication network to receive reference identification particulars and each device being in wireless communication with an associated remote station.

The telecommunication network is typically a cellular telephone network. Accordingly, the reference identification particulars may be downloaded by means of SMS messages.

In certain embodiments, the telecommunication network is the Internet.

The remote station may include alternate communication
means for communicating with other databases. For example, the base station may include a further communication interface arranged to interface with NATIS (National Traffic Information Service). The interface may be configured to communicate via the Internet to NATIS, law enforcement authorities, or the like. A plurality of regional base

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stations may be provided which are each linked via a communication network, e.g. the Internet, to a national control centre.

Still further in accordance with the invention, there is provided a method of identifying a vehicle in a parking zone, the method including

feeding identification particulars into a device which has access to a database which includes reference identification particulars of vehicles;

comparing identification particulars of the vehicle in the parking zone with the reference identification particulars; and

selectively generating a warning signal in response to the comparison.

The reference identification particulars are typically the identification particulars of stolen vehicles.

The database may be provided in the device and the method includes updating the database periodically. The method may include communicating the identification particulars in a wireless fashion from the device to a remote station at which the database is located.

The invention is now described, by way of example, with reference to the accompanying diagrammatic drawings.

20 In the drawings,

Figure 1 shows a system or installation, in accordance with the invention, for monitoring the use of zones or parking bays;

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Figure 2 shows a schematic representation of a device or remote unit, also in accordance with the invention, of the installation of Figure 1;

Figure 3 shows a schematic block diagram of the remote unit of Figure 2;

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Figure 4 shows a schematic circuit diagram of the remote unit of Figure 3;

Figure 5 shows a schematic flow chart of information in the system or installation; and

Figure 6 shows the device or remote unit installed at a parking area including a plurality of parking zones or bays.

Referring to the drawings, reference numeral 10 generally indicates an installation or system, in accordance with the invention, for monitoring the use of a plurality of parking zones or bays 12 (only a few of which are shown and referenced in the drawings). The installation 10 includes a national control centre 13 which is connected via a communication link 14, e.g. the Internet, to a plurality of base stations 16 (only a few of which are shown in the drawings) which are located in various parts of the country e.g. in various suburbs, shopping centres, or the like. Each base station 16 is remotely connected to a plurality of portable remote units 18 via a conventional cellular telephone network 20. The parking bays 12 are arranged in groups, each group being associated with a specific portable remote unit 18 which is allocated to a supervisor (not shown) who, with the aid of the portable remote unit 18, monitors the use of the parking bays 12 as described in more detail below. In other embodiments of the invention, the remote units 18 communicate with the base stations 16 using conventional RF transceivers (not shown).

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The national control centre 13 is linked to NATIS via a digital communication link, e.g. the Internet, so that reference identification particulars such as the model, make, colour, or registration particulars of vehicles, e.g. stolen vehicles, may be fed into its internal storage means. The national control centre 13 thus includes comprehensive details on vehicles such as stolen vehicles which may then be communicated via the communication link 14 to each base station 16 where the particulars are stored in its internal memory. Each remote unit 18 includes a memory 22 (see Figures 2 and 3) in which a database of reference identification particulars of vehicles is stored. The reference identification particulars are downloaded from the base station 16 via the conventional cellular telephone network 20 in the form of SMS (Short Message System) messages. During the course of the day if further reference identification particulars e.g. particulars of a vehicle which has been stolen during the course of the day are required, these particulars may be instantaneously downloaded into the memory 22 via the network 20.

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The portable remote units 18 include a housing which is water-proof and which is shaped and dimensioned to define a hand-held unit which includes its various components. The remote unit 18 includes a display 24 (see Figures 2 to 4) for displaying various information to the supervisor, as described in more detail below. The remote unit 18 further includes input means in the form of a keypad 26, a warning LED 30, a receipt printer 32, a power supply unit 34 which includes a lithium re-chargeable battery for powering the remote unit, a cellular interface 36 which is operable to receive and transmit data via the conventional cellular telephone network 20, and reading means for reading monetary value from a smart card, a credit card, or the like.

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When a driver of a vehicle requiring use of a particular parking zone or bay has parked his car, the supervisor of the group of parking bays in which the specific bay is located approaches the vehicle and, via the keypad 26 of his remote unit 18, enters observed identification particulars of the vehicle into the remote unit 18. The observed identification particulars are typically the registration number of the vehicle and the processor unit 28 then access the memory 22 in which a database of vehicle particulars are stored. Reference particulars corresponding to the registration number are then retrieved from the memory 22 and displayed on the display 24. The reference particulars typically include the make, colour, model etc. of the vehicle and the supervisor then visually compares these particulars with the vehicle parked in the parking bay. In the event of there being a mismatch between the reference particulars and the observed particulars, the supervisor may then alert the relevant authorities by communicating a warning signal to the base station 16 associated with the particular remote unit 18.

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Further, the memory 22 includes comprehensive details on vehicles which are being illegally used e.g. stolen vehicles or the like. The processor unit 28 thus compares the registration number which has been fed in via the keypad 26 with a database of stolen vehicles in the memory 22 and, if the comparison is positive, the processor unit 28 activates the warning LED 30 thereby to alert the supervisor. The supervisor may then double check that the vehicle registration number which he has fed in via the keypad 26 is correct by comparing the observed registration number of the vehicle with the particulars entered in via the keypad 26 and which are displayed on the display 24. If the correct registration number has in fact been entered, the warning signal

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may be either automatically, or in response to an action of the supervisor, be transmitted via the cellular interface 36 to the associated base station 16. The associated base station 16 may then alert the relevant authorities e.g. the police or the like. It is however to be appreciated that, instead of the cellular communication link 20, a radio link, a wired link via a conventional hardwired telephone system, an Internet link or the like may be used to communicate between the base station 16 and the remote unit 18 or used to communicate between the base stations 16 and the control centre 13.

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In addition to entering the vehicle registration number into the remote unit 18, each parking bay 12 associated with the specific remote unit 18 is numbered and an identification number of the specific parking bay is also entered into the remote unit 18 via the keypad 26. Once parking of the vehicle in the specific parking bay has been authorised, timing means defined by the processor unit 28 for timing the duration of the vehicle in the parking bay is then initialised. The processor unit 28 retrieves reference data from the memory 22 which may be selectively downloaded into the memory 22 from the base station 16. The processor unit 28 then calculates the rate of charge dependent on the time of day, day of the week, class of parking area, or the like.

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The display 24 is typically a ten line 30 digit LCD display which, under control of the processor unit 28, displays the registration number of the vehicle, the number of the parking bay in which the vehicle is parked, the time and date, the rate per hour for use of the parking bay, or the like. Once the supervisor has received payment for use of the parking bay and entered payment details into the remote unit

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"Thank you. Payment made before departure. Pay only the amount on the screen". It is to be appreciated however that any other messages may be displayed on the display 24. The processor unit 28 may thus keep financial records of the financial transactions that take place during the course of the day and may then transmit comprehensive details to its associated base station 16. The base station 16 also includes processor means for generating statistics on the use of the various parking bays, running accounts on the total amount of cash received or the like.

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In the event of the user not paying the supervisor the required amount, the remote unit 18 may communicate the reference particulars of the vehicle to the base station 16 which may then notify the relevant local authorities in order to take legal action. In order to facilitate payment to the supervisor, the reading means 38 is provided for receiving smart cards, credit cards, or the like. A facility is typically provided in the remote unit 18 to provide benefits for regular or monthly parking users. In certain embodiments, the remote unit 18 includes a transponder interrogator for interrogating an electronic tag provided on the vehicle. The electronic tag includes the identification particulars of the vehicle. In other embodiments, the electronic tag may be provided in the form of a key-ring.

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The remote unit 18 is arranged so that the user may prepay for use of the bay for a specific period of time or pay the supervisor upon returning to collect the vehicle. In the event of the user prepaying the supervisor, the printer 32 may print the appropriate receipt in advance. However, in the event of the user only paying the supervisor upon returning to the vehicle, the identification number of the parking bay is

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entered into the portable unit 18 which then displays the registration number of the vehicle presently parked in the bay. The processor unit 28 then calculates the amount due and display 24 then indicates that this amount must be paid directly to the attendant. It is to be appreciated that they display 24 may then further display various other messages such as "Not paid yet", "If not paid legal action will follow from the local authority" or the like.

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In order to avoid unauthorised use of each remote unit 18, each supervisor is furnished with a unique identification code or PIN number which is fed into the processor unit 28 via the keypad 26. If the PIN number matches a reference PIN number in the memory 22 the remote unit 18 is activated or enabled. The reference PIN number may be downloaded from the base station 16 via the network 20.

Figure 3 of the drawings shows an embodiment of electronic circuitry of the remote unit 18. The unit 18 includes a conventional cellular telephone antenna 40 which is connected via line 42 to a standard cell phone receiver including a conventional pre-amp, local oscillator, mixers, IF amplifiers and detectors. The receiver 44 is coupled to a detector/decoder 46 which, in turn, is connected to the memory 22 and to the display 24 and a logic amplifier and digital interface. The unit 18 includes a PC compatible interface 48 for connection to computing facilities at the base station 16. Further, a transmitting arrangement 50 and a standard cellular telephone transmitter 52 are provided for communicating with the base station 16. A typical circuit diagram of the device or remote unit 18 is shown in Figure 4.

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In the embodiment of the invention shown in Figures 1 to 4 of the drawings, the reference identification particulars are downloaded and stored in the remote unit 18. However, in other embodiments of the invention, as shown in Figure 5, the reference identification particulars are stored in the remote or base stations 16. In this embodiment, the vehicle identification particulars are fed into the device or remote unit 18 either manually or remotely by means of an electronic tag as shown in block 80 in Figure 5. The device 18 then communicates the identification particulars via its transmitter arrangement 50 to an associated base station 16 which is part of a local area computer as shown at block 82. At the base station, the reference identification particulars are compared with the identification particulars fed into the device 18 and, if the vehicle particulars match those of a stolen vehicle, as shown at block 84, a link to the relevant authorities is provided as shown at block 86. The base station 16 may then retrieve reference vehicle particulars such as the colour, the make, or model of the vehicle and communicate them back to the device or remote unit 18 whereupon the data is displayed on its display 24. As shown at block 88, the supervisor may then compare the identification particulars received from the base station 16 in order to ascertain whether or not erroneous data has been entered into the remote unit 18. If there is a mismatch of data, the remote unit 18 may communicate a warning signal to the relevant authorities as shown by line 90.

Once the relevant identification particulars have been entered by the supervisor into the remote unit 18, the motorist can then go shopping whilst the car is being supervised by the supervisor. Upon entry of the vehicle identification particulars into the remote unit 18, a timer is set to time the duration for which the vehicle will be parked in

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the parking zone 12 so that an appropriate charge may be calculated upon return of the motorist. As shown at block 92, once the motorist returns to the parking bay or zone 12 data on the relevant parking bay is entered into the remote unit 18 which then calculates a monetary amount due for use of the parking bay. As shown at block 94, all payments received are communicated to the remote stations 16 for accounting purposes. Summaries of all financial transactions may then be communicated to the control centre 13 as generally indicated by block 96.

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contacted for legal action.

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Referring in particular to Figure 6 of the drawings, reference numeral 100 generally indicates the arrangement of parking zones 12 proximate a roadway 102. As mentioned above, each vehicle may include an electronic tag which contains the identification particulars of the vehicle. Accordingly, a remote interrogator 104 may be located proximate the parking zone 12 to read the electronic tag provided on the vehicle. In addition or instead, a conventional automated monetary value receiving device is provided.

The installation or system 10 provides a facility at the national control centre 13 to monitor use of a legal vehicle registration number at different locations or areas throughout the country. In particular, similar vehicle registrations are monitored and time durations between monitoring of the same registration number are determined to see if the distance travelled by the vehicle is feasible. If it appears that duplicate registration numbers exist, the appropriate authorities may be

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The inventor believes that the invention, as illustrated, provides an enhanced installation 10 for monitoring the use of and identifying stolen vehicles. As the registration number of the vehicle requiring use of the parking bays is entered into the remote unit 18, each time a vehicle is parked the registration particulars may be compared with a reference database to identify the illegal use of vehicles.

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CLAIMS:

1. A device for identifying a vehicle in at least one parking zone, the device including

input means for feeding input identification particulars of the vehicle in the parking zone into the device;

communication means for communicating reference identification particulars of vehicles from a remote station to the device;

storage means for storing reference identification particulars;

processor means connected to the input means and to the storage means, the processor means including comparator means for comparing the input identification particulars with the reference identification particulars; and

signal generation means for selectively generating a warning signal in response to the comparison.

- 15 2. A device as claimed in Claim 1, which includes timing means for timing the duration for which the vehicle is parked in the parking zone.
 - 3. A device as claimed in Claim 2, in which the processor means defines the timing means and is operable to calculate a monetary amount due for parking in the parking zone so that the device functions as a parking meter.
 - 4. A device for identifying a vehicle in at least one parking zone, the device including

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input means for feeding input identification particulars of the vehicle in the parking zone into the device;

communication means for communicating the input identification particulars to a remote station at which reference identification particulars of vehicles are stored, the input identification particulars and the reference identification particulars being compared at the remote station thereby to identify the vehicle; and

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timing means for timing the duration for which the vehicle is parked in the parking zone in order to calculate a monetary amount due for parking in the parking zone.

- 5. A device as claimed in Claim 4, which includes processor means which defines the timing means and is operable to calculate the monetary amount due so that the device functions as a parking meter.
- 6. A device as claimed in Claim 5, which includes display means for displaying the identification particulars and data on the monetary amount due.
 - 7. A device as claimed in any one of the preceding claims, which includes monetary receiving means for receiving monetary value.
- 8. A device as claimed in any one of the preceding claims, which includes a printer for printing a hard-copy of selected data.
 - 9. A device as claimed in any one of the preceding claims, in which the input means includes a keypad via which the identification particulars of the vehicle and the parking zone are manually entered.

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- 10. A device as claimed in any one of the preceding claims, in which the input means includes a reader capable of reading in a wireless fashion a tag device in or on the vehicle, the tag carrying the said identification particulars of the vehicle.
- 5 11. A device as claimed in any one of the preceding claims, in which the communication means is a wireless communication link.
 - 12. A device as claimed in any one of the preceding claims, which includes enabling means for selectively enabling the device.
- 13. A device as claimed in Claim 12, in which the enabling
 means is defined by processor means and the input means in such a fashion so that upon entry of a correct PIN number the device is enabled.
 - 14. A device as claimed in any one of the preceding claims, in which the reference identification particulars are reference identification particulars of stolen vehicles.
- 15. A device as claimed in any one of the preceding claims, which includes a housing for housing its various components which is shaped and dimensioned so that it can be hand-held.
 - 16. A system for identifying vehicles in a plurality of parking zones, the system including
- a remote station at which reference identification particulars of vehicles are stored; and

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at least one device for identifying a vehicle parked in one of a plurality of parking zones with which the device is associated, the device including

input means for feeding input identification particulars of a vehicle in the parking zone into the device;

communication means for communicating the input identification particulars to the remote station; and

timing means for timing the duration for which the vehicle is parked in the parking zone in order to calculate a monetary amount due for parking in the parking zone, the input identification particulars and the reference identification particulars being compared at the remote station and a warning signal selectively being generated in response to the comparison.

- 17. A system as claimed in Claim 16, in which a wireless communication means is provided for communicating the input identification particulars to the remote station.
 - 18. A system for identifying vehicles in a plurality of parking zones, the system including

a remote station at which reference identification particulars of vehicles are stored;

at least one device for identifying a vehicle parked in one of a plurality of parking zones with which the device is associated, the device including

input means for feeding input identification particulars of a vehicle in the parking zone into the device;

communication means for receiving the reference identification particulars from the remote station;

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storage means for storing the reference identification particulars of vehicles;

processor means connected to the input means and the storage means, the processor means including comparator means for comparing the input identification particulars with the reference identification particulars; and

signal generating means for selectively generating a warning signal in response to the comparison.

- 19. A system as claimed in Claim 18, which includes timing means for timing the duration for which the vehicle is parked in the parking zone, the processor means defining the timing means and being operable to calculate a monetary amount due for parking in the parking zone.
 - 20. A system as claimed in any one of the preceding claims 16 to 19 inclusive, in which the input means includes a reader capable of reading a tag device hidden in or on the vehicle in a wireless fashion, the tag carrying the said identification particulars of the vehicle.
 - 21. A system as claimed in any one of the preceding claims 16 to 20 inclusive, which includes a control centre and plurality of remote stations at remote locations with parking zones, each remote station being in communication with the control centre via a telecommunication network to receive reference identification particulars and each device being in wireless communication with an associated remote station.
- 22. A system as claimed in Claim 21, in which the telecommunication network is a cellular telephone network.

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- 23. A system as claimed in Claim 22, in which the reference identification particulars are downloaded by means of SMS messages.
- 24. A system as claimed in any one of the preceding claims 21 to 23 inclusive, in which the telecommunication network is the Internet.
- 5 25. A system as claimed in any one of the preceding claims 16 to 24 inclusive, in which the remote station includes alternate communication means for communicating with other databases.
 - 26. A method of identifying a vehicle in a parking zone, the method including
- feeding identification particulars into a device of the vehicle in the parking zone;

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transmitting the identification particulars to a remote station;

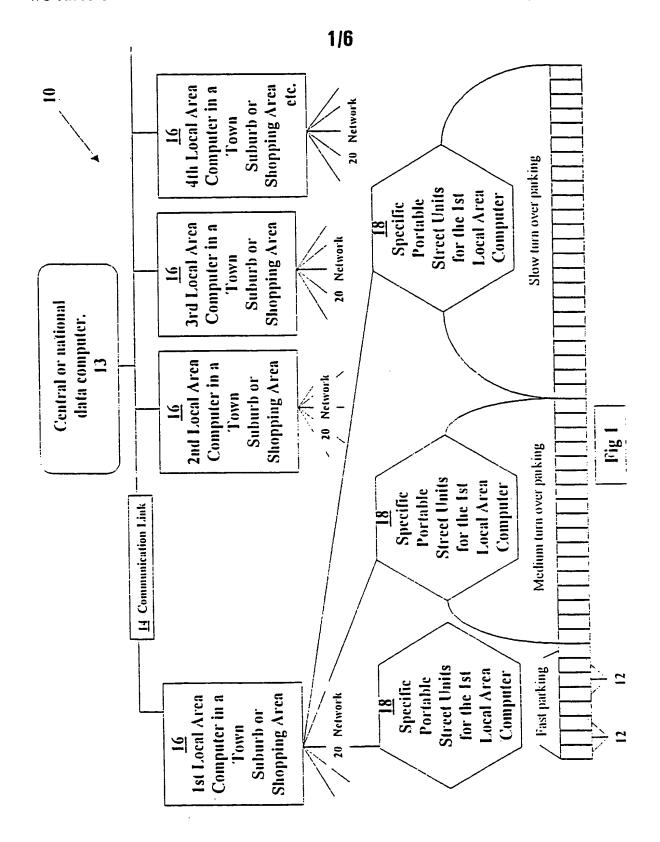
comparing identification particulars of the vehicle in the parking zone with the reference identification particulars at the remote station; and

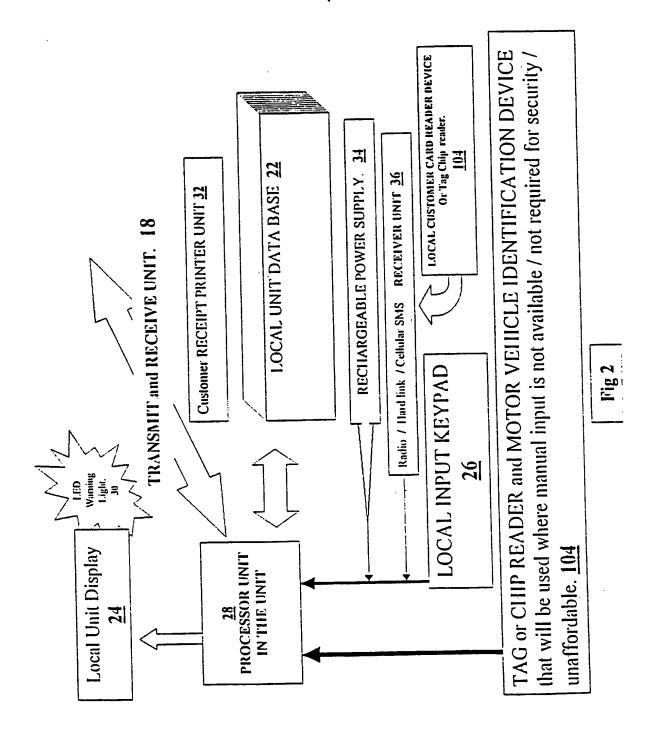
selectively generating a warning signal in response to the comparison.

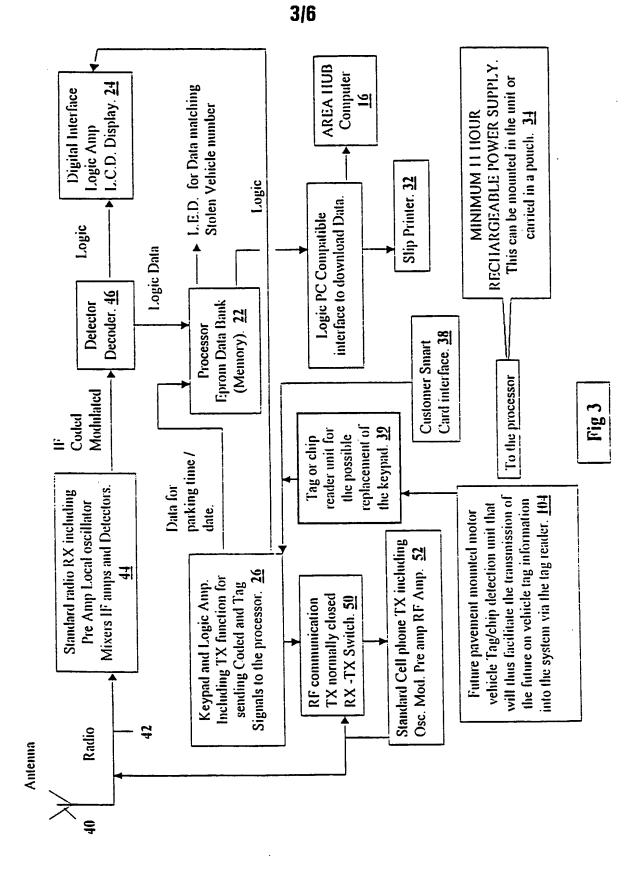
- 27. A method as claimed in Claim 26, in which the reference identification particulars are the identification particulars of stolen vehicles.
- 28. A method as claimed in Claim 26 or Claim 27, in which the database is provided in the device and the method includes updating the database periodically in a wireless fashion.

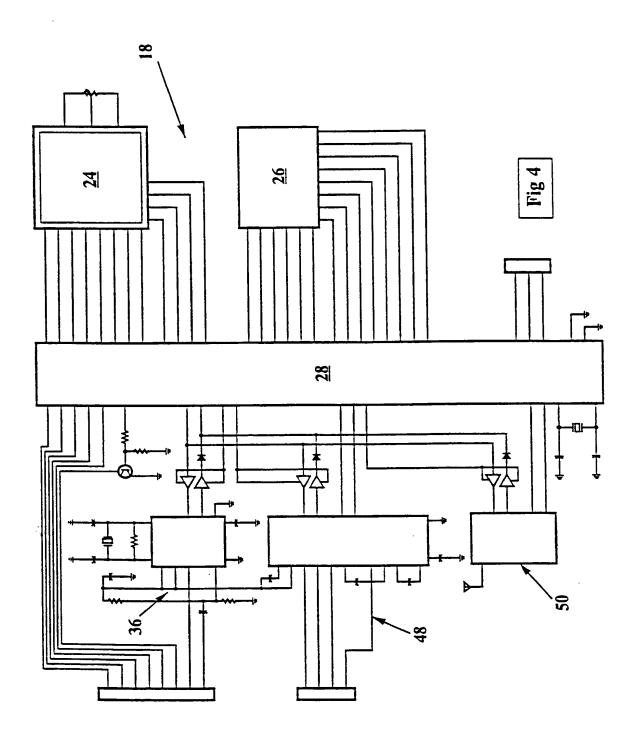
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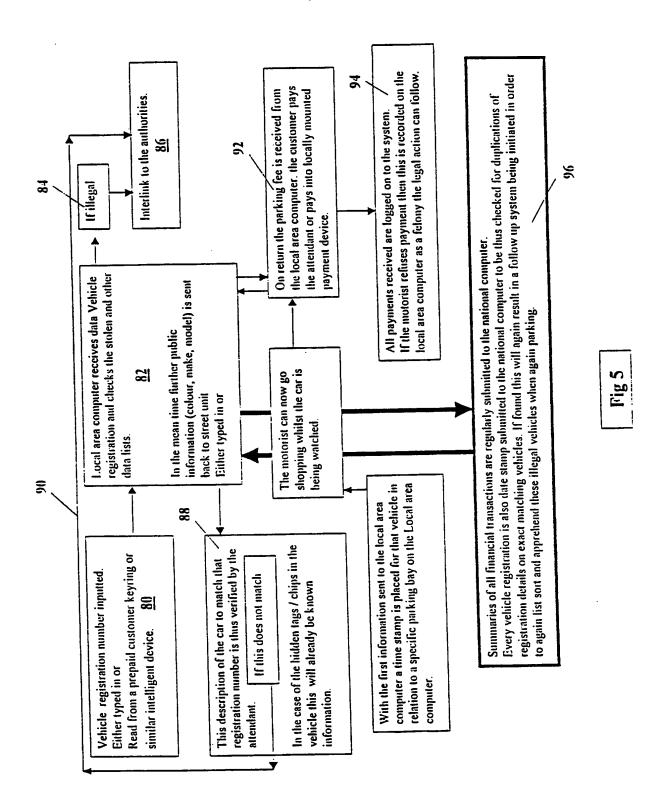
29.	A device, substantially as herein described and illustrated.
30.	A system, substantially as herein described and illustrated.
31.	A method, substantially as herein described and illustrated.



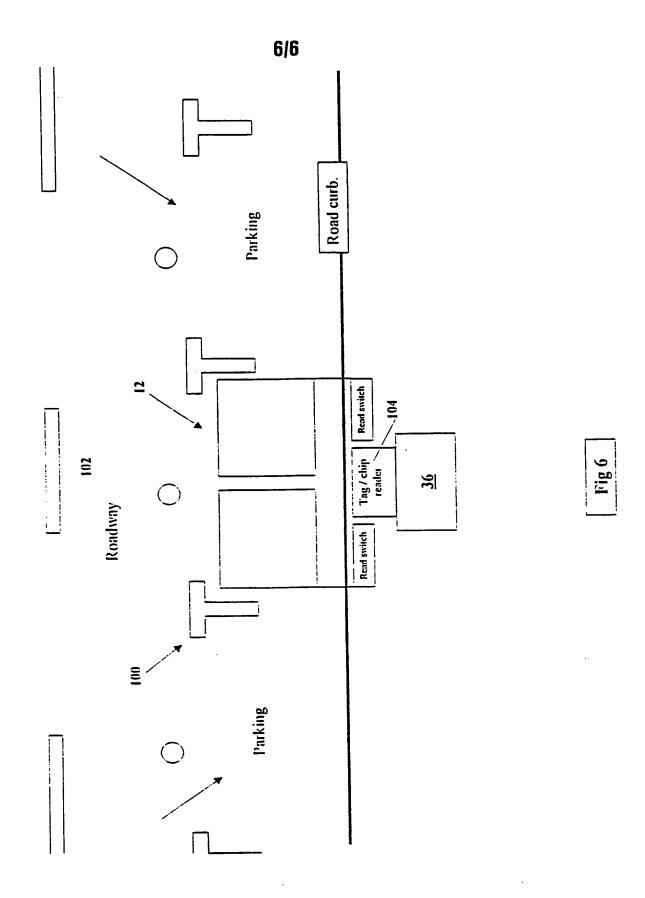








SUBSTITUTE SHEET (RULE 26)





INTERNATIONAL SEARCH REPORT

Enem DCT/ICA 1210 /conned cheet\ / July 10021

International application No.

PCT/IB 99/01723

A. CLASSIFICATION OF SUBJECT MATTER					
IPC7: G07C 1/30, G07F 17/24 According to International Patent Classification (IPC) or to both na	tional classification and IPC				
B. FIELDS SEARCHED					
Minimum documentation searched (classification system followed by	classification symbols)				
IPC7: G07C, G07F Documentation searched other than minimum documentation to the	evient that such documents are included i	n the fields searched			
Documentation searched other than minimum documentation to the	extent that such documents are more				
Electronic data base consulted during the international search (name	of data base and, where practicable, searc	h terms used)			
C. DOCUMENTS CONSIDERED TO BE RELEVANT					
Category* Citation of document, with indication, where app	ropriate, of the relevant passages	Relevant to claim No.			
X EP 0193320 A2 (ELECSELL LIMITED) (03.09.86), whole document, 3 and page 17 line 12 - line	see especially figure	1-13,15-21			
TO THE TREE TREE TO THE TREE TREE TREE TREE TREE TREE TREE	WO 9830982 A1 (MODUL-SYSTEM SWEDEN AB), 16 July 1998 (16.07.98), whole document				
The street of th	28 April 1998 3 - line 10,	4-8,14,16, 20,25-27			
X Further documents are listed in the continuation of Box	C. See patent family anne	x.			
Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance.	"T" later document published after the in date and not in conflict with the appl the principle or theory underlying the	ication but cited to understand			
"E" erlier document but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other	"X" document of particular relevance: the considered novel or cannot be considered when the document is taken alor	ered to involve an inventive			
special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than	"Y" document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art				
the priority date claimed	"&" document member of the same pater				
Date of the actual completion of the international search	Date of mailing of the international 2 1 02				
25 January 2000	Anny in definition				
Name and mailing address of the International Searching Authority I European Patent Office P.B. 5818 Patentlaan 2 NL-2280 HV Rijswijk	Authorized officer Gunilla Jonsson / JA A				
Tel(+31-70)340-2040, Tx 31 651 epo nl. Fax(+31-70)340-3016	Telephone No.				



TUSA DAN (continuation of second sheet) (112/4 1992)

International application No. PCT/IB 99/01723

C (Continu	ation). DOCUMENTS CONSIDERED TO BE RELEVANT	
	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Х	SE 507381 C2 (ROLF RISING), 25 May 1998 (25.05.98), page 5, line 17 - line 27	1,10-13,15, 18,20-26,28
x	 WO 9627170 A1 (PARKIT OY), 6 Sept 1996 (06.09.96),	4-6,8-11,
^	page 7, line 30 - page 9, line 15	15-17,21-23, 26,28
		1 4 0 11 12
X	WO 9611453 A1 (PARKIT OY), 18 April 1996 (18.04.96), page 4, line 15 - page 5, line 19, figure 2	1,4,9,11-13, 15-18,21,22, 26,28
		
A	WO 9719568 A1 (VAZVAN, BEHRUZ), 29 May 1997 (29.05.97), page 2, line 26 - line 35	1,18,21-23, 26,28
•	100 0220520 A1 (2005500 TOMMY) 14 October 1993	25
A	WO 9320539 A1 (JONSSON, TOMMY), 14 October 1993 (14.10.93), page 4, line 21 - line 25	25
A	EP 0523742 A2 (EASY PARK LTD), 20 January 1993 (20.01.93), column 7, line 58 - column 8, line 2	1,8,10,11, 14,27
	·	



Internation No.

PCT/IB 99/01723

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
2. X Claims Nos.: 29-31 because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically: The claims 29-31 are not clear. See PCT article 6.
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)
This International Searching Authority found multiple inventions in this international application, as follows:
As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remark on Protest The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.



INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No. PCT/IB 99/01723

							1
	itent document in search repor	t	Publication date		Patent family member(s)		Publication date
EP	0193320	A2	03/09/86	JP	61246887	A	04/11/86
40 	9830982	A1	16/07/98	AU	708082		29/07/99
				AU	1561397		11/08/97
				EP	0879205		25/11/98
				IL	125152		00/00/00
				NO	983110		31/08/98
				NO	993259		30/06/99
				PL	327972		04/01/99
				SE	510864		28/06/99
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WO	9719568	A1	29/05/97	FI	970767	A	20/10/97
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